

10IB - CHAPTER 3 REVIEW NAME: _____ EX: 3.1

This review package can be completed as we work through the chapter or at the latest the night before the review class for the chapter test. Use it as an on-going review or as a study booklet right before the test. The answers will be posted during the review class before the chapter test.

Determine the greatest common factor of 36, 48 and 60.

Determine the least common multiple of 35, 60 and 75.

Earth, Jupiter, Saturn, and Uranus revolve around the Sun every 1, 12, 30, and 84 years respectively. If the four planets currently line up, how many years will pass before they would line up again?

Hint: Find the LCM.

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Use factoring to determine the square root of 196.

Use factoring to determine the cube root of 216.

A cube has a volume of 1331 cm^3 . Find the surface area of the cube.

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Factor each binomial.

a) $5x + 10$

b) $3x^2 - 6x$

Factor each trinomial.

a) $2m^2 + 2m - 14$

b) $4 - 8z + 12z^2$

Factor each trinomial.

a) $10x^3 + 15x^2 - 5x$

b) $3m^2n^3 - 9mn^2 + 18m^3n^2$

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Expand and simplify.

a) $(x-3)(x+10)$

b) $(n-12)(n-5)$

Factor.

a) $x^2 + 2x - 24$

b) $x^2 - 6x + 8$

Factor.

a) $-x^2 + 5x + 6$

b) $5x^2 + 35x + 60$

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Expand and simplify.

a) $(3c + 5)(2c - 1)$

b) $(4g - 7)(2g - 3)$

Factor.

a) $2x^2 + 7x - 4$

b) $3x^2 - 4x - 15$

Factor.

a) $12y^2 - 5y - 2$

b) $8y^2 - 18y + 9$

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Expand and simplify.

a) $(3x + y)(x - 2y)$

b) $(2m - 5n)^2$

Expand and simplify.

a) $3a(2a + 1)(a - 5)$

b) $(4m + 1)(2m^2 - 3m - 7)$

Expand and simplify.

$(2x^2 - x - 3)(x^2 + 4x + 1)$

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Factor.

a) $x^2 + 8x + 16$

b) $4x^2 - 12x + 9$

Factor.

a) $36x^2 - 49$

b) $2d^2 - 50$

Factor.

a) $3a^2 - 5ab - 2b^2$

b) $5m^2 - 16mn + 3n^2$